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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/760,645	01/17/2001	Chong Min Kyung	EM/KYUNG/6426	3451
7590 08/25/2004			EXAMINER	
BACON & THOMAS, PLLC 625 Slaters Lane-4th Floor Alexandria, VA 22314-1176			THOMPSON, ANNETTE M	
			ART UNIT	PAPER NUMBER
			2825	

DATE MAILED: 08/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/760,645

Applicant(s)

KYUNG ET AL.

Examiner

A. M. Thompson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 August 2004.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Applicants' Amendment and Response has been reviewed. The abstract is amended.

Claims 1, 17 and 40 are amended. Claims 1-40 are pending.

1. Applicants' Amendment and Response is considered persuasive in part. The pertinent rejections from the prior office action are incorporated herein.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Rejection of claims 1-40

3. Claims 1-40 are rejected under 35 U.S.C. 102(e) as being anticipated by Marantz et al. (Marantz)(U.S. Patent 6,061,511).

4. Pursuant to claim 1, 17, 32, and 40, Marantz discloses an emulator (c1, c17) and method (c32) for verifying a logic design of a target chip (col. 27-30), comprising a processing engine for executing a software algorithm (col. 2, ll. 31-40) corresponding to the logic design of the target chip (col. 3, ll. 55-63); a target interface engine interfacing with said target system (col. 4, ll. 13-25) for transmitting/receiving pin signals to/from said target system in response to the execution of said software algorithm, wherein the software variable and the pin signals are time-variant and the processing engine

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includes means for finding correspondence between said software variable and said pin signals at a predetermined time (col. 3, line 55 to col. 4, line 12; col. 5, line 53 to col. 6, line 4).

5. Pursuant to claims 2 and 18 wherein the target interface engine comprises a pin signal generator for generating pin signals to be transmitted to said target system and receiving pin signals from said target system; and a pin signal monitor for receiving and storing said pin signals communicated between said pin signal generator and said target system (col. 6, ll. 5-30).

6. Pursuant to claims 3 and 19 wherein the pin signal monitor store time information associated with the pin signals (col. 6, ll. 5-30).

7. Pursuant to claim 4 and 20, wherein the pin signal monitor comprises a trigger event (col. 6, ll. 53-67).

8. Pursuant to claim 5 and 21, wherein said trigger event comprises means for transmitting a first interrupt request (col. 8, ll. 4-28).

9. Pursuant to dependent claims 6-16, 22-31, and 33-39, the limitations of these claims are likewise anticipated by Marantz.

Remarks

10. Applicants' claim language do not recite any limitations relating to an *actual* hardware system or the synchronous monitoring or probing of pin signals. The rejection of claims 1-40 as anticipated by Marantz is therefore maintained.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications should be directed to Examiner A.M. Thompson whose telephone number is (571) 272-1909. The Examiner can usually be reached Monday thru Friday from 8:00 a.m. to 4:30 p.m.. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Matthew S. Smith, can be reached on (571) 272-1907.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

13. Responses to this action should be mailed to the appropriate mail stop:

Mail Stop _____

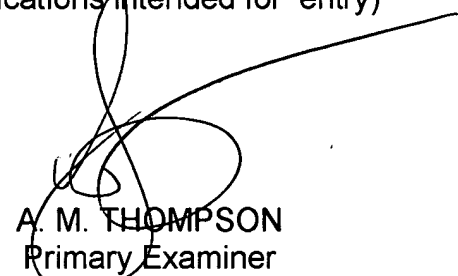
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or faxed to:

(703) 872-9306, (for all **OFFICIAL** communications intended for entry)



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